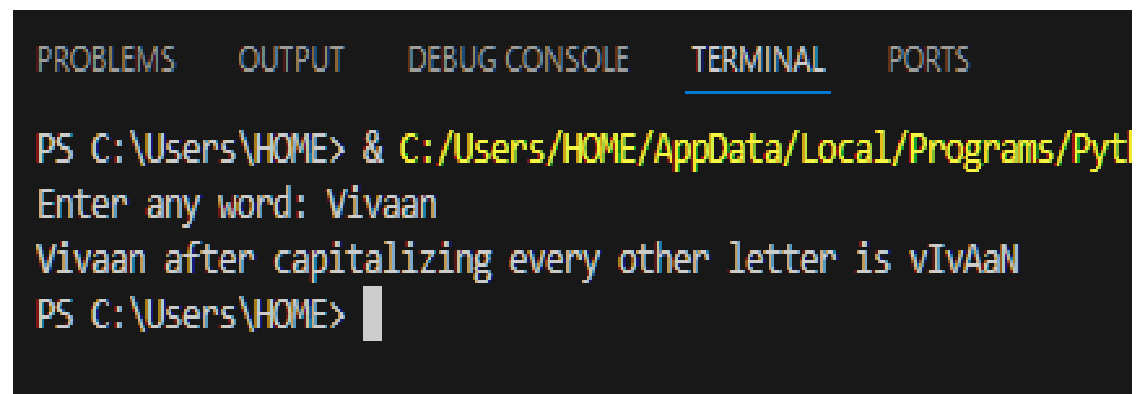


```
word = str(input("Enter any word: "))
result = ""
for i in range(len(word)):
    if i % 2 == 0:
        result += word[i].lower()
    else:
        result += word[i].upper()

print(f"{word} after capitalizing every other letter is {result}")
```

Output:

A screenshot of a Python IDE's terminal window. The window has a dark background with a tab labeled 'TERMINAL' in blue. At the top, there are tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', and 'PORTS'. The terminal shows the command prompt 'PS C:\Users\HOME>' followed by the command '& C:/Users/HOME/AppData/Local/Programs/Python/Python311/Python.exe'. The user enters 'Vivaan' when prompted 'Enter any word:'. The output is 'Vivaan after capitalizing every other letter is vIvAaN'. The prompt 'PS C:\Users\HOME>' is shown again with a cursor.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Python/Python311/Python.exe
Enter any word: Vivaan
Vivaan after capitalizing every other letter is vIvAaN
PS C:\Users\HOME> 
```

```
productandprice = {}

a = -1

while a != 0:

    print("Add a product and its price -> 1")
    print("Search a product name and display its price -> 2")
    print("Exit -> 0\n")
    a = int(input("What to you want to do: "))

    if a == 1:

        product , price = input("Enter Product Name and Price seperated by a space: ").split()
        product = str(product)
        price = float(price)
        productandprice[product] = price
        print("Product Successfully Added\nUpdated List:")
        print(productandprice)
        print()

    elif a == 2:

        search = str(input("\nEnter the Product you want to search (Case Sensitive): "))
        found = False

        for product , price in productandprice.items():

            if product == search:

                print(f"Price of {product} is {price}\n")
                found = True
                break

        if not found:

            print(f"Sorry {search} not found. Please Try Again!\n")

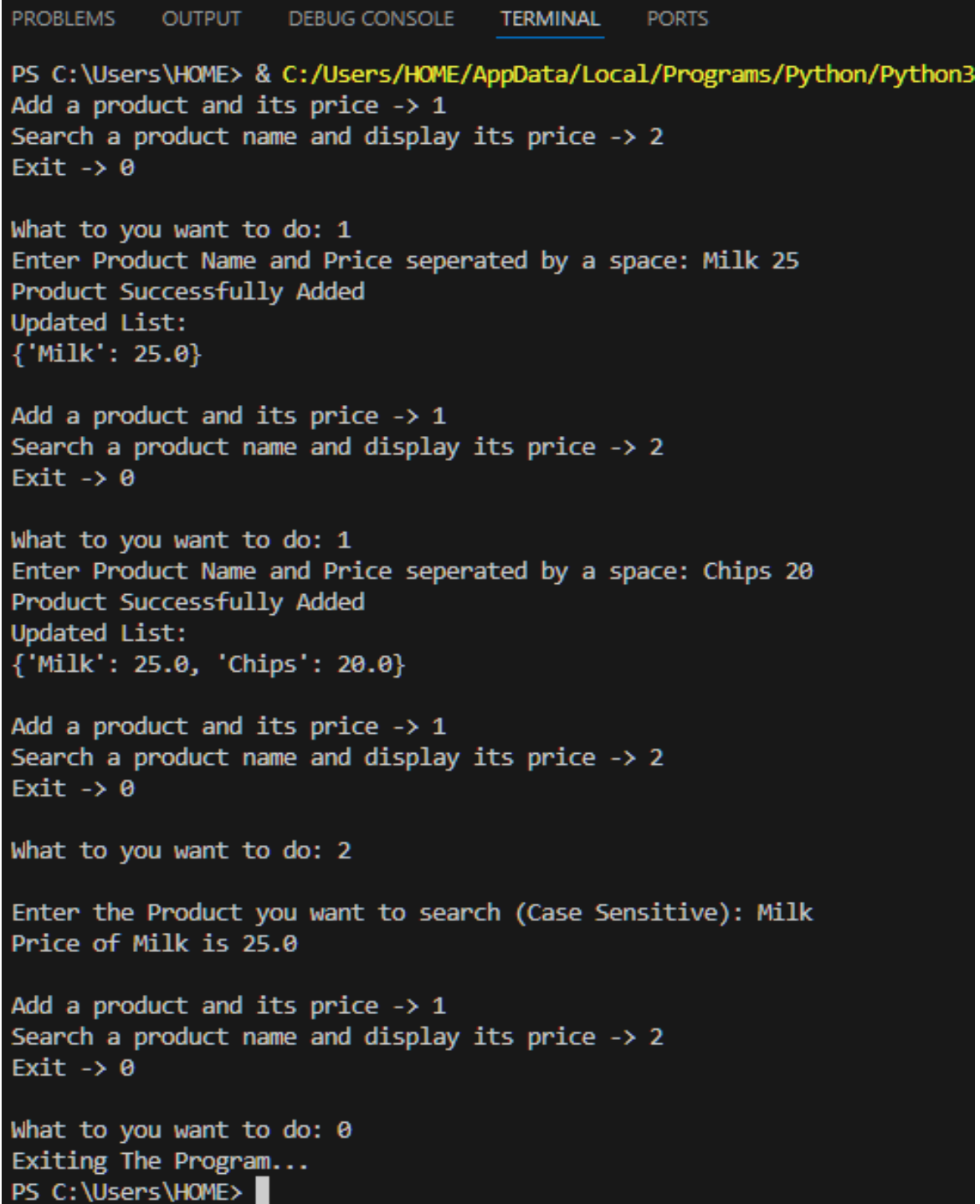
    elif a == 0:

        print("Exiting The Program...")

    else:
```

```
print("Please enter a valid number and try again!\n")
```

Output:



```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS C:\Users\HOME> & C:/Users/HOME/AppData/Local/Programs/Python/Python3
Add a product and its price -> 1
Search a product name and display its price -> 2
Exit -> 0

What to you want to do: 1
Enter Product Name and Price seperated by a space: Milk 25
Product Successfully Added
Updated List:
{'Milk': 25.0}

Add a product and its price -> 1
Search a product name and display its price -> 2
Exit -> 0

What to you want to do: 1
Enter Product Name and Price seperated by a space: Chips 20
Product Successfully Added
Updated List:
{'Milk': 25.0, 'Chips': 20.0}

Add a product and its price -> 1
Search a product name and display its price -> 2
Exit -> 0

What to you want to do: 2

Enter the Product you want to search (Case Sensitive): Milk
Price of Milk is 25.0

Add a product and its price -> 1
Search a product name and display its price -> 2
Exit -> 0

What to you want to do: 0
Exiting The Program...
PS C:\Users\HOME> █
```

```
output = []
n = int(input("Enter number of test cases: "))
for i in range(n):
    digits = []
    count = 0
    testcase = int(input(f"Enter test case {i+1}: "))
    digits = [int(digit) for digit in str(testcase)]
    for number in digits:
        if testcase % number == 0:
            count += 1
    output.append(count)
print(output)
```

Output:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE

PS C:\Users\HOME> & C:/Users/HOME/App
Enter number of test cases: 2
Enter test case 1: 12
Enter test case 2: 13
[2, 1]
PS C:\Users\HOME> 
```